



CFP2000 Result

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IBM Corporation

IBM eServer xSeries 306m (3.4 GHz Pentium 4 650, 2MB L2 Cache)

SPECfp2000 = 1952

SPECfp_base2000 = 1923

SPEC license #: 11 | Tested by: IBM Corporation | Test date: Aug-2005 | Hardware Avail: Sep-2005 | Software Avail: Jun-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	58.6	2729	58.6	2729	
171.swim	3100	115	2706	114	2708	
172.mgrid	1800	117	1543	117	1543	
173.applu	2100	130	1614	128	1638	
177.mesa	1400	93.9	1491	93.9	1491	
178.galgel	2900	81.1	3575	81.1	3575	
179.art	2600	54.6	4765	54.6	4765	
183.quake	1300	53.8	2419	44.6	2916	
187.facerec	1900	93.0	2044	93.0	2044	
188.amp	2200	170	1292	170	1292	
189.lucas	2000	87.2	2294	86.7	2306	
191.fma3d	2100	136	1545	136	1545	
200.sixtrack	1100	163	675	163	675	
301.apsi	2600	196	1325	196	1325	

Hardware

CPU: Intel Pentium 4 650 (800 MHz system bus)
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip (Hyper-Threading Technology disabled)
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 12K(I) micro-ops + 16KB(D) on chip
 Secondary Cache: 2048KB(I+D) on chip
 L3 Cache: N/A
 Other Cache: N/A
 Memory: 4 x 1024 MB ECC PC2-3200 Single Rank
 Disk Subsystem: 75GB SATA 7.2K RPM
 Other Hardware:

Software

Operating System: Windows Server 2003 Standard Edition
 Compiler: Intel C/C++ Compiler 9.0 (20050624Z) for 32-bit applications
 Intel Fortran Compiler 9.0 (20050624Z) for 32-bit applications
 Microsoft Visual Studio .NET 13.0.9466 (for libraries)
 MicroQuill Smartheap Library 7.30
 File System: NTFS
 System State: Default

Notes/Tuning Information

GENERAL

ONESTEP=yes
 +FDO: PASS1=-Qprof_gen PASS2=-Qprof_use

PORTABILITY

178.galgel: -FI /F3200000
 191.fma3d: srcalt=windowsdp

BASE TUNING

C/F77/F90: -fast -Qansi_alias +FDO

PEAK TUNING

168.wupwise: basepeak=yes
 171.swim: -fast -f77rtl +FDO
 172.mgrid: basepeak=yes
 173.applu: -fast -Qscalar_rep- -Qauto -f77rtl +FDO
 177.mesa: -fast +FDO
 178.galgel: basepeak=yes
 179.art: basepeak=yes
 183.quake: -fast -Oa -Qrcd +FDO shlw32M.lib



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Notes/Tuning Information (Continued)

```
187.facerec: -fast -Qunroll11 -Qscalar_rep- +FDO
188.amp: basepeak=yes
189.lucas: -fast
191.fma3d: basepeak=yes
200.sixtrack: -Qipo +FDO
301.apsi: basepeak=yes
```